

APPLICATION/NOTIFICATION TO CONSTRUCT OR MODIFY A DAM, DIKE, RING DIKE OR OTHER WATER RESOURCE FACILITY

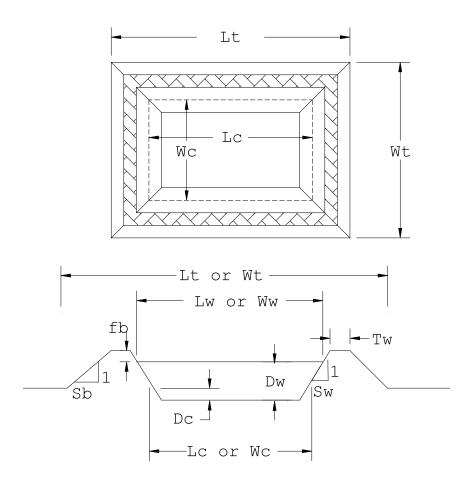
Office of the State Engineer 900 East Boulevard -- Bismarck, ND 58505-0850 SFN 51695 (8/08)

SWC U	CE.	

Λ	CENEDAL	INFORMATION:	

án	d use a	ersigned, do hereby submit the as a filing of information require or modify a facility under North	d under North Dakota Centu	ry Code §61-04-02 or a		
			(SV	VC USE ONLY) No.		SWC USE
Α.	GEN	ERAL INFORMATION:	V			
	(1)		The map shall have a nor	th arrow and approx	imate scale. If, in the op	hic map. The size of the map inion of the State Engineer,
	(2)	The proposed facility is a:				
		Dike (Complete S	Sections A, C & F) Sections A, D & F) Dete Sections A, D & F) tion (Complete Sections A	DiversOther	sion Ditch (Complete Se	
	(3)	Is this Application/Notificat	ion for modification of an	existing structure?	☐ Yes ☐ No	
		If so, what year was e	existing structure construc	ted?	By whom?	
	(4)	Project will be located in the	ne			Water Resource District
	(5)					nip Range
		(Optional) Latitude		Longitude		
	(6)	Waterway on which project				
	(7)	A tributary to:				
		to construct the project project will impound wat copy of the easement p roadway, or railroad, or	must be obtained from the er on land not owned in fee provided to this office. If any	landowner of record a title by the applicant, y portion of the project ter within the right-of-w	and a copy of the authorized a flowage easement must twill be constructed withing tray of a section line, roadw	the applicant, written authorization ation provided to this office. If the be obtained by the applicant and a the right-of-way of a section line ay, or railroad, written authorization
	(9)	Project sponsor (Water Re	esource District/City/US Fi	sh & Wildlife Service	e, etc.) if applicable	
	(10	Contractor, if known				
	(11) Anticipated construction st	art date		Completion date	
	(12) Who will be responsible fo	r the operation and maint	enance of this projec	ot?	
R	PON	D, LAGOON, DUGOUT, DI	VERSION DITCH OR O	THER WATER RES	OURCE FACILITY:	
		Design Data:				
	()	a. Pond, Lagoon, or l	Dugout (complete below a d or cell, photocopy if nec		b. Diversion Ditch	
		1. Surface area:	top of structure	acres	1. Length	feet
			service level	acres	2. Bottom widt	h feet
		2. Storage:	top of structure	acre-feet	3. Side slopes	feet
			service level	acre-feet	4. Maximum cı	ut feet
		3. Maximum dep	th of water	feet	5. Gradient	foot/foot
		4. Maximum emb	pankment height	feet		
	(2)	Description of project, if no	ot a Pond, Lagoon, Dugou	it, or Diversion Ditch	:	

B. OTHER WATER RESOURCE FACILITY (continued):



DESCRIPTION	ABBREVIATION	DIMENSION (feet)
Total length of pond (includes banks)	Lt	
Total width of pond (includes banks)	Wt	
Length of water surface at full service level	Lw	
Width of water surface at full service level	Ww	
Length of cut into the soil surface	Lc	
Width of cut into the soil surface	Wc	
Depth of cut into soil surface	Dc	
Depth of water in the pond at the full service level	Dw	
Freeboard (the distance between the full service level and the top of the structure that is used to manage wave action, usually 2-3 feet)	fb	
Top width of embankment surrounding the pond	Tw	
Outside bank sideslope ratio (usually 4:1, which is 4 horizontal feet for every 1 foot of rise)	Sb	
Inside bank sideslope ratio (will vary between 4:1 and 6:1, depending on the soil type)	Sw	

(1)	Drainage area abov	ve dam	\$0	quare miles or	a	cres
(2)	Purpose:					
(3)	Geometric descript	ion of dam:				
	a. Maximum heigh	t (H) feet, ele	evation f	eet msl	S1	S 2
	b. Top width (T)	feet		1	EMERGENCY SPILL	LWAY 1
	c. Side slopes:	upstream (S1)	:1	l Ji	Н	_
	(downstream (S2)	:1			
	d. Type of embank	ment protection				
	e. Emergency spills	• • • • • • • • • • • • • • • • • • • •				
	If earthen:	width	ft, si	de slopes	_:1, level section le	ength
	Dimensions if	other than earthen				
	f. Principal spillway	y:				
	Outlet pipe:	type		diameter	lengtl	h f
	Riser:	type			diame	eter
	Control gate:	type		dimensions		
	g. Drawdown Pipe:	type			diame	ter
(4)	Distance to neares	t downstream occupie	d dwelling(s)			
		ELEVATION	l (feet)	RESERVOIR		RESERVOIR
		Indicate datum:	(1001)	SURFACE ARE		CAPACITY
		☐ local ☐ NGVD 2	9 🗖 NAVD 88	(acres)		(acre-feet)
Тор о	f Dam					
Emer	gency Spillway					
Princi	pal Spillway					
Draw	down Pipe					
Stream	mbed at Dam					
D. DIKE	<u> </u>					
(1)	Is this application/r	notification for the cons	struction of a ring	dike? ☐ Yes ☐ No)	
		_	_	☐ high ground ☐ d		
	_		•	g g. v		
(-)					1. T.,	
(3)	Area of land to be	protected by dike	acre	s S ₁		_
(4)	Description of Dike			1 1		$\frac{S_2}{I_1}$
(- /	a. Dike length					1 H
	b. Dike design:					
	b. Dike design: 1. Top width	n (T) feet				
	1. Top width	n (T) feet es: interior (S1)				
		es: interior (S1) _	:1			
	1. Top width 2. Side slop	es: interior (S1) _ exterior (S2)_	:1 :1	feet msl		
	 Top width Side slop Maximum 	es: interior (S1) _ exterior (S2)_ n height (H)	:1 :1 _ feet, elevation _			
	 Top width Side slop Maximum Minimum 	es: interior (S1) _ exterior (S2)_	:1 :1 _ feet, elevation _ feet, elevation	feet msl		

C. DAMS

(1)		are:		garag
(2)	Is this project mitigation	for another project?	No	
(4)		operation plan for the wetland:		
		OVERFLOW ELEVATION (feet) Indicate datum: I local I NGVD 29 I NAVD 88	CAPACITY (acre-feet)	SURFACE AREA (acres)
Exis	sting			
Natı	ıral			
Pro	posed			
Тор	of Structure			
		n, AFFIDAVIT OF DESIGN ENGINEER, A		
(1)	Additional information a	ina comments.		
(2)	submitted with and mad or diverting more than 9 Engineer, capable of re than 10 feet in height a required, the following a	and specifications prepared by a profess le part of this Application/Notification if the 50 acre-feet of water, or if the structure i taining more than 25 acre-feet of water. re exempt from the requirement for profe ffidavit must be completed:	e proposed structure will be a medium or high hazard Low hazard dams, as detensional engineering services.	e capable of retaining, obstructing, d dam, as determined by the State rmined by the State Engineer, less es. If plans and specifications are
	Professional Engineer ras described in this ap	egistered in the State of North Dakota, desplication and on any attached sheets, and code §89-08-03-01. Date:	esigned and/or personally s and construction will be in	supervised the design of the project
(3)	- · · · · · · · · · · · · · · · · · · ·	ation/Notification in no way relieves the apperation or failure of the project.	plicant or landowner from a	any responsibility or liability resultinç
	Land Owner (print)	:		
	Address:			
	Phone:			
	Signature:		Date:	
	Sponsoring Agency	y:		
	Address:			
	Phone:			
	Signature:		Date:	